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NOTICE OF ALLOWANCE AND FEE(S) DUE

34610

7590

04/08/2004

FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153 EXAMINER
SMITH, BRADLEY

PAPER NUMBER

.

ART UNIT

DATE MAILED: 04/08/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/739.753	12/20/2000	Hee Bok Kang	HME/K-10O	4978

TITLE OF INVENTION: NONVOLATILE FERROELECTRIC MEMORY DEVICE AND METHOD FOR FABRICATING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/08/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

13 10 mp 1 10 mm			or <u>Fax</u>	(703) 746-4000			
appropriate. All further con indicated unless corrected by	respondence including the I below or directed otherwise	Patent, advance or	ders and notificatio	n of maintenance fees	uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sep	correspondence address as	
maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus			
34610 75	590 04/08/2004			have its own certifica	te of mailing or transmission.	ent or formal drawing, mus	
FLESHNER & K	IM, LLP			Co	ertificate of Mailing or Tran	smission	
P.O. BOX 221200	•			I hereby certify that	this Fee(s) Transmittal is being	ng deposited with the United	
CHANTILLY, VA	20153			addressed to the Ma transmitted to the US	this Fee(s) Transmittal is bein with sufficient postage for fir til Stop ISSUE FEE address PTO, on the date indicated be	s above, or being facsimile low.	
						(Depositor's name)	
						(Signature)	
				<u>L.</u>		(Date)	
APPLICATION NO.	FILING DATE	1	FIRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/739,753	12/20/2000		Hee Bok Kan	3	HME/K-10Q	4978	
TITLE OF INVENTION: N			· · · · · · · · · · · · · · · · · · ·				
APPLN. TYPE	SMALL ENTITY	ISSUE FE	EE 1	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330		\$300	\$1630	07/08/2004	
EXAM	IINER	ART UN	IT (CLASS-SUBCLASS]		
SMITH, B	RADLEY	2824		438-003000			
Address form PTO/SB/12 "Fee Address" indication	ence address (or Change of C	Correspondence	names of up to agents OR, alter firm (having as agent) and the r	orinting on the patent front page, list (1) the of up to 3 registered patent attorneys or OR, alternatively, (2) the name of a single aaving as a member a registered attorney or and the names of up to 2 registered patent as or agents. If no name is listed, no name orinted.			
3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submitted (A) NAME OF ASSIGNE	an assignee is identified beld to the USPTO or is being s	ow, no assignee da ubmitted under sep	nta will appear on the barate cover. Compl	ne natent Inclusion of	assignee data is only appropri T a substitute for filing an ass DUNTRY)	ate when an assignment has ignment.	
Please check the appropriate		ries (will not be pri	nted on the patent);	🔾 individual 🔾	corporation or other private g	roup entity 🔾 government	
4a. The following fee(s) are of	enclosed:	4b.	. Payment of Fee(s)				
☐ Issue Fee				nount of the fee(s) is en			
□ Publication Fee	. .			lit card. Form PTO-2038 is attached. hereby authorized by charge the required fee(s), or credit any overpayment, to			
Advance Order - # of C	Copies		Deposit Account N	hereby authorized by c umber	harge the required fee(s), or (enclose an extra c	credit any overpayment, to copy of this form).	
Director for Patents is reques	sted to apply the Issue Fee an	nd Publication Fee	(if any) or to re-app	ly any previously paid	issue fee to the application ide	entified above.	
(Authorized Signature) (Date)					····		
other than the applicant; a interest as shown by the rec	Publication Fee (if require a registered attorney or age cords of the United States Pa	ent; or the assigne tent and Trademark	e or other party ir coffice.				
This collection of informat obtain or retain a benefit by application. Confidentiality estimated to take 12 minute completed application for case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT SI SEND TO: Commissioner for Collection of information uses the collection of the coll	END FEES OR COMPLE for Patents, Alexandria, Virg	TED FORMS TO inia 22313-1450.	THIS ADDRESS				



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	FLESHNER & KIM, LLP				SMITH, BRADLEY		
P.O. BOX 22 CHANTILLY				ART UNIT	PAPER NUMBER		
				2824			
				DATE MAILED: 04/08/200-	4		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 156 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 156 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			N.
	Application No.	Applicant(s)	
A	09/739,753	KANG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Bradley K Smith	2824	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in to b) or other appropriate commun RIGHTS. This application is sul	his application. If not included ication will be mailed in due co	urse. THIS
1. ☑ This communication is responsive to 1/12/04. 15-18 2. ☑ The allowed elements in the 10 20 22 25 28 24 and 27	75KS 4/2/04		
2. $igtimes$ The allowed claim(s) is/are- $rac{+8}{2}$,20,22-26,28-34 and 37. 3. $igtimes$ The drawings filed on 12 January 2004 are accepted by t	•		
 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	re been received. re been received in Application	No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requi	rements
 A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give 			FICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet, Replacement sheet(s) should be labeled as such in	rson's Patent Drawing Review (n the Office action of drawings in the front (not the ba	ack) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			e the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 10/30/03 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sun Paper No./M 08), 7. ⊠ Examiner's Al	rmal Patent Application (PTO- nmary (PTO-413), ail Date mendment/Comment tatement of Reasons for Allowa	,
	A aldra s	RICHARD ELMS SUPERVISORY PATENT EXAMI TECHNOLOGY CENTER 280	NER O

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 09/739,753 Page 2

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DETAILED ACTION

Election/Restrictions

1. Claims 15 and 28 are generic and allowable. Accordingly, the restriction requirement as to the encompassed species is hereby withdrawn and claims 22, 23, 25, 32, and 33, directed to the another species no longer withdrawn from consideration since all of the claims to this species depend from or otherwise include each of the limitations of an allowed generic claim.

In view of the above noted withdrawal of the restriction requirement as to the linked species, applicant(s) are advised that if any claim(s) depending from or including all the limitations of the allowable generic linking claim(s) be presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

- 2. This application is in condition for allowance except for the presence of claim 40 non-elected without traverse. Accordingly, claim 40 been cancelled.
- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

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by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Cancel claim 40

Allowable Subject Matter

4. Claims **1**5. 4. Claims **1**6-18, 20, 22-26, 28-34, and 37 are allowed.

5. The following is an examiner's statement of reasons for allowance: the prior art of record neither teaches nor suggests forming an insulating layer covering the first and second split wordlines, forming the first and second capacitors each include a first electrode formed on the insulating layer and a second electrode formed over the first electrode and forming first and second bitlines across the first and second split wordlines.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley K Smith whose telephone number is (571)272-1884. The examiner can normally be reached on 10-6 Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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